

Applicant:

Johnson

Serial No.:

10/634,558

Att'y Docket No.: 15436.434.3.1

Filing Date:

August 4, 2003

Group: 2828

MECHANICAL STABILIZATION OF LATTICE MISMATCHED
QUANTUM WELLSINFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
PN 1	4,603,340	07/1986	Dil
2	4,644,378	02/1987	Williams
3	4,787,089	11/1988	Hayakawa et al.
4	5,040,186	08/13/1991	Logan et al.
5	5,229,627	07/1993	Kosaka
6	5,251,225	10/05/1993	Eglash
7	5,316,968	06/31/1994	Choquette
8	5,371,387	12/1994 ^{PN}	Ando
9	5,373,166	12/13/1994	Buchan et al.
10	5,381,434	01/10/1995	Bhat et al
11	5,383,211	01/17/1995	Van de Walle et al
12	5,408,487	04/1995	Uchida et al.
13	5,432,809	07/11/1995	Grodzinski et al.
14	5,491,710	02/1996	Lo
15	5,493,577	02/20/1996	Choquette et al.
↓ 16	5,557,627	09/17/1996	Schneider Jr. et al.

Examiner: /Phillip Nguyen/ (08/21/2006) Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Johnson
 Serial No.: 10/634,558
 Filing Date: August 4, 2003
 For: MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS

Att'y Docket No.: 15436.434.3.1
 Group: 2828

<u>PN</u>	17	5,559,818	09/24/1996	Shono et al
	18	5,583,351	12/10/1996	Brown et al
	19	5,671,242	09/23/1997	Takiguchi et al
	20	5,719,894	02/17/1998	Jewell et al
	21	5,719,895	02/17/1998	Jewell et al.
	22	5,757,833	05/26/1998	Arakawa et al.
	23	5,780,867	07/1998	Fritz et al
	24	5,825,796	10/20/1998	Jewell et al.
	25	6,252,894	06/26/2001	Sasanuma et al.
	26	6,359,920	03/19/2002	Jewell et al
<u>↓</u>	27	6,363,092	03/26/2002	Botez et al

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publication Date</u>	<u>Country or Patent Office</u>
<u>PN</u> 28	0 428 913 A2	05/29/1991	EP
29	0 606 821	07/20/1994	EP
30	08 139404	05/31/1996	JP
<u>PN</u> 31	PCT/US 99/26496	03/20/2000	PCT

Examiner: /Phillip Nguyen/ (08/21/2006) Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Johnson

Serial No.: 10/634,558

Att'y Docket No.: 15436.434.3.1

Filing Date: August 4, 2003

Group: 2828

For: MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS

Other Documents

(including author, title, pertinent pages, etc.)

Examiner

Initial*

- _____ 32 Lutgen, S. "Strukturelle und optische Eigenschaften von symmetrisch verspannten (AlGaIn)As/Ga(PAs)-Übergittern [Structural and optical properties of symmetrically strained (AlGaIn)As/Ga(PAs) superlattices]", Dissertation at Marburg University (1993).
- PN 33 Lutgen, S., et al, "Optical properties of symmetrically strained (GaIn)As/Ga(Pas) superlattices grown by metalorganic vapour phase epitaxy", Solid State Electronics, Vol. 37, Nos. 4-5, pp. 905-909 (1994).
- PN 34 Lutgen, S., et al., "Metal-organic vapour phase epitaxial growth of symmetrically strained (GaIn)As/Ga(Pas) superlattices", Materials Science and Engineering B21, pp. 249-252 (1993)
- PN 35 Lutgen, S., et al. "Carrier effective mass in symmetrically strained (GaIn)As/Ga(Pas) multiple-quantum-well structures", Phys. Rev. B, Vol. 52, No. 15, pp. 11096-11104, (1995).
- PN 36 Sze, S.M., "Physics of Semiconductor Devices", Wiley & Sons 2nd Edition, 1981, pp. 704-742
- _____ 37 Harth, W., et al "Sende- und Empfangsdioden für die optische Nachrichtentechnik [Sending and receiving diodes for optical information technology], Teubner, 1984, pp. 84-120.
- _____ 38 "Low Threshold 1.57 μ m VC-SEL's Using Strain-Compensated Quantum Wells and Oxide/Metal Backmirror," Chua et al., IEEE Photonics Technology letters 7 (1995) May, No. 5, pp. 444-446.
- _____ 39 H. Sohn, et al. "A New Approach to Grown Strain-Free GAAS on Si", Materials Research Society Symposium Proceedings, 1 January 1991, XP000578836, Figure 4

Examiner: /Phillip Nguyen/ (08/21/2006) Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Johnson
Serial No.: 10/634,558
Filing Date: August 4, 2003
For: MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS

Att'y Docket No.: 15436.434.3.1
Group: 2828

- ____ 40 Campbell, J.C., et al, "Quantum dot resonant cavity photodiode with operation ~~near 1.3 μ m wavelength~~", magazine article, 17 July 1997, pps. 1337-1339, Electronics Letters, Vol. 33, No. 15.
- ____ 41 Corzine, S.W., "Design of Vertical-Cavity Surface-Emitting Lasers with Strained and unstrained quantum Well Active Regions", ECE Technical Report #93-09, May 1993, University of California at Santa Barbara.
- ____ 42 Miller, B.I., et al., "Strain-compensated strained-layer superlattices for 1.5 μ m wavelength lasers", magazine article, 6 May 1991, pps. 1952-1954, Appl. Phys. Lett. 58 (18), American Institute of Physics.
- ____ 43 Mirin, R.P., et al., "1.3 μ m photoluminescence from InGaAs quantum dots on GaAs", magazine article, 18 December 1995, pps. 3795-3797, Appl. Phys. Lett. 67 (25), American Institute of Physics.
- ____ 44 Orenstein, M., et al., "Vertical-cavity surface emitting InGaAs/GaAs lasers with planar lateral definition", magazine article, 11 June 1990, pps. 2384-2386, Appl. Phys. Lett. 56 (24), American Institute of Physics.
- ____ 45 Peter, M., et al., "Realization and modeling of pseudomorphic (GaAs_{1-x}Sb_xIn_yGa_{1-y}As)/GaAs bilayer-quantum well", magazine article, 30 October 1995, pps. 2639-2641, Appl. Phys. Lett. 67 (18), American Institute of Physics.

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiner: /Phillip Nguyen/ (08/21/2006) Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Johnson

Serial No.: 10/634,558

Att'y Docket No.: 15436.434.3.1

Filing Date: August 4, 2003

Group: 2828

For: MECHANICAL STABILIZATION OF LATTICE MISMATCHED
QUANTUM WELLS

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

GPM0000002287V001

Examiner: /Phillip Nguyen/ (08/21/2006) Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
